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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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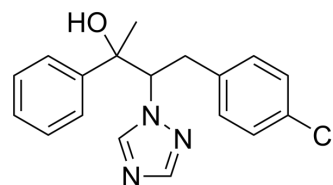
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(Rac)-Brassinazole

Cat. No.:	HY-121161		
CAS No.:	224047-41-0		
Molecular Formula:	C ₁₈ H ₁₈ ClN ₃ O		
Molecular Weight:	327.81		
Target:	Cytochrome P450		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (152.53 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0505 mL	15.2527 mL	30.5055 mL
		5 mM	0.6101 mL	3.0505 mL	6.1011 mL
10 mM		0.3051 mL	1.5253 mL	3.0505 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.63 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.63 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(Rac)-Brassinazole, triazole-type compound, is a brassinosteroid (BR) biosynthesis inhibitor. (Rac)-Brassinazole increases inhibition of CYP90B in BR biosynthesis ^{[1][2]}
In Vitro	(Rac)-Brassinazole (compound 5) does not retard rice stem elongation, and retardation is recovered by the addition of gibberellin (GA3), suggesting that such retardation is due to the inhibition of gibberellin biosynthesis ^[1] . (Rac)-Brassinazol (compound 31) results in a reduction in the effect on AtKO in gibberellin (GA) biosynthesis ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Y K Min, et al. New Lead Compounds for Brassinosteroid Biosynthesis Inhibitors. *Bioorg Med Chem Lett*. 1999 Feb 8;9(3):425-30.

[2]. Eriko Sasaki, et al. Uniconazole, a Cytochrome P450 Inhibitor, Inhibits Trans-Zeatin Biosynthesis in *Arabidopsis*. *Phytochemistry*. 2013 Mar;87:30-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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